

PROJECT
SWIS # 18-AA-0013

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

BOARD ORDER NO. 6-93-102
WDID NO. 6A180019000

UPDATED WASTE DISCHARGE REQUIREMENTS

FOR

U.S. ARMY - SIERRA ARMY DEPOT
SOLID WASTE DISPOSAL SITE

Lassen County

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LAHONTAN
REGION, (BOARD) FINDS:

1. Discharger

The United States Army owns and operates the Sierra Army Depot Solid Waste Disposal Site. For the purposes of this order, the U.S. Army is hereinafter referred to as the "Discharger" and the Sierra Army Depot Solid Waste Disposal Site is referred to as the "Landfill".

2. Previous Requirements

The Board previously established waste discharge requirements for the Landfill under Board Order No. 6-73-76, which was adopted on June 28, 1973.

3. Reason for Action

The Board is updating waste discharge requirements at this time to reflect current Board policy and to incorporate provisions of both federal Subtitle D (40 CFR Parts 257 and 258) and Article 5 of Chapter 15 (Title 23, Division 3, Chapter 15, California Code of Regulations), revised July 1, 1991.

4. Landfill Location

The Landfill is located in the SW 1/4 of the NW 1/4 of the SW 1/4 of Section 26, T.27N., R.16E., MDB&M, which is on the Sierra Ordnance Depot property, north of Herlong. The disposal site is located within the Herlong Hydrologic Subunit of the Susanville Hydrologic Unit, as shown on Attachments "A" and "B", which are made a part of this Order.

5. Landfill Description

The Landfill, which serves both the residential and commercial entities at the Sierra Army Depot, is operated by the United States Army. The site has a total area of approximately 40 acres. It is estimated that the remaining capacity of the site is approximately 740,000 cubic yards.

The Landfill receives an average of 100 cubic yards per day or approximately 12,000 cubic yards per year of Non-Hazardous and Inert wastes.

6. Site Geology and Hydrology

The soils at the Landfill site have been shown to be 365-Ardep sandy loam, which is described as well drained, with moderately rapid permeability, slow surface runoff, and low to moderate water holding capacity. A survey of the surrounding and other nearby soils conducted by the Soil Conservation Service indicates that there are no nearby formations of clay or impervious soils.

Drilling logs at the site indicate that the surface soils (the top 2.5 to 3 feet) have a lower permeability and greater water holding capacity than the underlying soils. Consequently, very little ground water recharge occurs in the area naturally. However, ground water contours at the site indicate that the Landfill and adjacent borrow pit may be causing a localized recharge, due to the removal of the upper soil layer.

The elevation of seasonal high ground water level has been determined to be 3987.7 feet above Mean Sea Level (MSL). The Discharger proposes to maintain the bottom of the current waste cell and those of any subsequent waste cells at an elevation of 4000 feet or greater.

As of May, 1991, the piezometric surface in the vicinity of the Landfill was determined to slope to the north-northwest with a gradient of approximately 0.001 ft/ft. The ground water monitoring and contour map is included as Attachment "C" to this Order.

There are no nearby watercourses. Stormwater runoff at the site, when it occurs, tends to drain into the Landfill and the adjacent borrow pit.

7. Ground Water Quality

Since 1985, high levels of Arsenic have been noted in ground water around the Landfill and adjacent borrow pit. Elevated levels of Vanadium have been noted in the ground water since 1988. Based on repeated ground water analyses, soil analyses, site observations, ground water contour maps, etc., the Discharger has concluded that the elevated Arsenic and Vanadium levels have occurred as a result of water ponding on and percolating through the soils in the borrow pit area. This Order requires that the Discharger develop and submit a plan to minimize or eliminate the leaching of metals into ground water at the Landfill and borrow pit.

8. Landfill Classification

This disposal site meets the criteria contained in Article 3 of Chapter 15 for classification as a Class III waste management unit (WMU) suitable to receive Non-Hazardous and Inert wastes.

9. Subtitle D Considerations

Pursuant to 40 CFR Parts 257 and 258 (Subtitle D), adopted October 9, 1991, all municipal solid waste landfills (MSWLFs) must meet certain minimum siting, construction, operating, monitoring, and closure requirements by October 9, 1993. The State Water Resources Control Board adopted Resolution No. 93-62 (Policy for Regulation of Discharges of Municipal Solid Waste), on June 17, 1993. The Policy directs each Regional Water Quality Control Board to revise the waste discharge requirements of each MSWLF in its respective region to comply with Subtitle D regulations.

The Board adopted Board Order No. 6-93-100 on September 9, 1993, amending all applicable portions of Subtitle D into the Waste Discharge Requirements of all MSWLFs in the Lahontan Region. This Order includes all applicable portions of Board Order No. 6-93-100.

10. Federal Deadline

The compliance deadline contained in Subtitle D is October 9, 1993, as stated in Finding 8, above. However, the deadline may be extended by the U.S. Environmental Protection Agency (EPA). Therefore, for the purposes of this Order, the October 9, 1993 deadline will be referred to as the "Federal Deadline". Should the deadline be extended, "Federal Deadline" will then refer to the new deadline.

11. Financial Assurance

- a. Financial assurance for closure, as required in Section 2580(f), Chapter 15, is not required by the Regional Board because the CIWMB requires a separate closure fund.
- b. Financial assurance will be required by the Board for completing corrective actions of reasonably foreseeable releases, as described in Section 2550.0(b), Chapter 15. The Discharger has proposed to provide a Federal Certification for financial assurance, which certifies that should a release occur, the U.S. Army will request that the U.S. Congress allocate the necessary funding to remediate the release. Regional Board staff considers the Federal Certification to be adequate financial assurance.

12. Basin Plan

The Board adopted the Water Quality Control Plan for the North Lahontan Basin on June 26, 1975.

13. Beneficial Uses - Ground Water

The beneficial uses of ground waters of the Herlong Hydrologic Subunit of the Susanville Hydrologic Unit, as set forth and defined in the Water Quality Control Plan for the North Lahontan Basin, are:

- a. municipal and domestic supply
- b. agricultural supply
- c. freshwater replenishment

14. Beneficial Uses - Surface Water

A. Minor Streams

The beneficial uses of minor streams in the Herlong Hydrologic Subunit of the Susanville Hydrologic Unit, as set forth and defined in the Water Quality Control Plan for the North Lahontan Basin, are:

- a. agricultural supply
- b. ground water recharge
- c. water-contact recreation
- d. non-water-contact recreation
- e. cold freshwater habitat
- f. wildlife habitat

B. Honey Lake

The beneficial uses of Honey Lake, as set forth and defined in the Water Quality Control Plan for the North Lahontan Basin, are:

- a. non-water-contact recreation
- b. warm freshwater habitat
- c. cold freshwater habitat
- d. wildlife habitat
- e. saline water habitat

15. CEQA Compliance

These updated waste discharge requirements govern an existing facility which the Discharger is currently operating. The project consists only of the continued operation of the existing facility and is therefore exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.) in accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations.

16. Notification of Interested Parties

The Board has notified the Discharger and all known interested agencies and persons of its intent to adopt waste discharge requirements for the project.

17. Consideration of Comments

The Board has, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Discharger shall comply with the following:

I. REGULATORY REQUIREMENTS

The Discharger is subject to and shall comply with the regulations and requirements prescribed in the following sections and articles of Chapter 15 and Subtitle D. No exemptions from these requirements may be assumed to be adopted unless reasonable alternatives are proposed by the Discharger, and a written approval for the alternatives and exemptions by the Board have been amended to these waste discharge requirements.

A. Waste Management Unit Classification and Management

Pursuant to Article 3, Chapter 15, the Landfill is classified as a Class III Landfill for Nonhazardous Solid Waste. Pursuant to Section 258.2, Subtitle D, the Landfill is classified as an existing Municipal Solid Waste Landfill (MSWLF). Therefore, wastes which may be legally discharged to the Landfill are classified as non-hazardous or inert solid wastes (Section 2523, Chapter 15).

B. Waste Management Unit Siting and Location Criteria

The Landfill is subject to the siting criteria and location restrictions prescribed under Sections 258.10 through 258.16, Subtitle D. These criteria and restrictions include the following:

- a. Floodplains (Sections 258.11 and 258.16)
- b. Wetlands (Section 258.12)
- c. Unstable Areas (Sections 258.15 and 258.16)
- d. Sources of Drinking Water

The Discharger shall submit a report stating whether or not the Landfill is located in a floodplain, wetland, unstable area, or within one mile of a source of drinking water (such as a well, spring, etc.) The report shall be submitted with the semi-annual monitoring report to be submitted by January 15, 1994.

C. Landfill Operating Criteria

Following the Federal Deadline, the Discharger shall comply with all the Operating Criteria prescribed in Sections 258.20 through 258.29, Subtitle D. These criteria include the following:

- a. Procedures for excluding the receipt of hazardous waste
- b. Cover material requirements
- c. Disease vector control
- d. Explosive gases control
- e. Air criteria
- f. Access requirements
- g. Run-on/run-off control systems
- h. Surface water requirements
- i. Liquids restrictions
- j. Recordkeeping requirements

The Discharger shall submit a report indicating compliance status with each of the above criteria prior to, or as a part of, the first scheduled monitoring report following the Federal Deadline. The report should include a proposal and time schedule to achieve full compliance with the above criteria.

D. Landfill Footprint

Should the Discharger propose to continue operation of the Landfill following the Federal Deadline, the Discharger shall document the Existing Footprint of the waste using photographs and a topographic map, and shall submit a copy of such documentation in the form of a report to the Regional Board. The documentation shall be submitted prior to, or as part of, the first scheduled monitoring report following the Federal Deadline.

E. Landfill Construction Requirements

For any lateral expansions of the Landfill after the Federal Deadline, the Discharger shall construct a composite liner system, as described in Section 258.40(b), and a leachate collection and removal system which is designed and constructed to maintain less than a 30 cm depth of leachate over the liner.

F. Landfill Closure Requirements

1. Final Cover Criteria

Final cover at the Landfill shall consist of an erosion layer underlain by an infiltration layer, as described under Section 258.60(a)(1) and (2).

2. Grading Requirements

Closed MWSLFs shall be graded and maintained to prevent ponding as described in Section 2581(b), Chapter 15.

3. Closure Plan

The Discharger shall submit a written closure and post-closure maintenance plan as described under Section 258.60(c), Subtitle D, and under Section 2580(a) and (b), Chapter 15.

4. Notice of Intent to Close

The Discharger shall notify the Regional Board of the intent to close the unit prior to the beginning of the closure, as described under Section 258.60(e), Subtitle D.

5. Closure Schedule

The Discharger shall begin closure activities at the Landfill no later than 30 days after the date on which the known final receipt of waste occurs at the Landfill or as described in Section 258.60(f), Subtitle D. The Discharger shall complete closure activities in accordance with the approved closure plan within 180 days following the beginning of closure unless any other time schedule has been approved by the Regional Board.

6. Deed Notation

Following the closure of the Landfill, the Discharger shall notify the Regional Board that the closure has been completed in accordance with the closure and post-closure care plan and under the supervision and verification of an independent registered professional engineer. Following the closure of the Landfill, the Discharger shall record a notation on the deed to the Landfill, as described under Section 258.60(H), Subtitle D. This notation shall not be removed from the deed unless all wastes are removed and permission from the Regional Board has been obtained.

7. Monuments

The Discharger shall ensure that the closed unit is provided with at least two permanent monuments installed by a licensed land surveyor or registered civil engineer as described under Section 2580(d), Chapter 15.

8. Vegetation

The Discharger shall ensure that vegetation for the closed unit shall be selected to require minimum irrigation and maintenance, and shall not impair the integrity of containment structures including the final cover.

9. Post-closure Care Requirements

The Discharger shall conduct a post-closure care program in accordance with the requirements given under Section 258.61, Subtitle D for 30 years unless this period is decreased by the Regional Board.

G. Financial Assurance

1. The Discharger shall provide and maintain funds, in an amount and manner acceptable to the Executive Officer, to ensure that the funds are available for closure and postclosure maintenance as required under Sections 258.70 and 258.74, Subtitle D.
2. The Discharger shall provide and maintain funds, in an amount and manner acceptable to the Executive Officer, to ensure that the funds are available to complete postclosure care action(s) as required under Sections 258.72 and 258.74, Subtitle D.
3. The Discharger shall provide and maintain funds, in an amount and manner acceptable to the Executive Officer, to ensure that the funds are available to implement and complete corrective action for all known and reasonably foreseeable releases as described under Sections 258.73 and 258.74, Subtitle D.

II. DISCHARGE SPECIFICATIONS

A. Receiving Water Limitations

1. The discharge of surface flows generated within or as a result of operation of the Landfill to receiving waters and/or stormwater conveyance systems shall not cause a violation of the following water quality objectives for waters of the Herlong Hydrologic Subunit of the Susanville Hydrologic Unit:
 - a. Color - Surface waters shall not exceed an eight (8) Platinum Cobalt Unit mean of monthly means.
 - b. Tastes and Odors - Taste or odor of surface or ground waters shall not be altered.

- c. Floating Material - The concentration of floating material, including solids, liquids, foams, and scum of surface waters shall not be altered to the extent that such alterations are discernable at the 90 percent significance level.
- d. Suspended Solids (Total Nonfilterable Residue)- The concentration of total nonfilterable residue of surface waters shall not be altered to the extent that such alterations are discernable at the 90 percent significance level.
- e. Settleable Material - The concentration of settleable material in surface waters shall not be raised by more than 0.1 milliliter per liter.
- f. Oil and Grease - The concentration of oil, greases, waxes or other materials that result in a visible film or coating on the surface of the water or on objects in the water shall not be altered.
- g. Biostimulatory Substances - The concentration of biostimulatory substances in surface waters shall not be altered in an amount that could produce an increase in aquatic biomass to the extent that such increases in aquatic biomass are discernable at the 90 percent significance level.
- h. Species Composition - The species composition of aquatic organisms in surface waters shall not be altered to the extent that such alterations are discernible at the 90 percent significance level.
- i. Algal Growth Potential - The mean monthly algal growth potential of surface waters shall not be altered to the extent that such alterations are discernable at the 90 percent significance level.
- j. Turbidity - Turbidity levels shall not be altered so as to cause a nuisance or adversely affect the water for beneficial uses. Increases in turbidity of surface waters shall not exceed background levels by more than 10 percent.

- k. pH - The pH of surface waters shall not be depressed below 6.5 nor raised above 8.5. Changes in normal ambient pH levels shall not exceed 0.5 units.
- l. Dissolved Oxygen - The dissolved oxygen concentrations of surface waters shall not be depressed by more than 10 percent, below 80 percent saturation or below 7.0 milligrams per liter (mg/l) at any time, whichever is more restrictive.
- m. Bacteria - Surface waters shall not contain concentrations of coliform organisms attributable to human wastes. Also, the surface water fecal coliform concentration based on a minimum of not less than five samples for any 30-day period, shall not exceed a log mean of 20/100 ml, nor shall more than 10 percent of total samples during any 30-day period exceed 40/100 ml. In ground waters, the median concentration of coliform organisms over any seven-day period shall be less than 2.2/100 ml.
- n. Pesticides - The summation of concentrations of total identifiable chlorinated hydrocarbons, organophosphates, carbamates, and other pesticide and herbicide groups, in all waters of the basin, shall not exceed the lowest detectable levels, using the most recent detection procedures available. There shall be no increase in pesticide concentrations found in sediments or aquatic life.
- o. Chemical Constituents - Ground and surface waters shall not contain concentrations of chemical constituents in excess of the limits specified in California Code of Regulations, Title 22, Chapter 15, Article 4, Section 64435, Tables 2 and 4.
- p. Toxic Pollutants - The concentrations of toxic pollutants in the water column, sediments, or biota shall not exceed levels which adversely affect the water for beneficial uses. The discharge shall not cause acute or chronic toxicity in ambient waters.

2. Water Quality Protection Standard

Pursuant to Section 2550.2, Chapter 15, the Regional Board shall establish a water quality protection standard (WQPS) for each waste management unit. The WQPS consists of five components: a) a list of the constituents of concern (those constituents which may reasonably be expected to be in or derived from waste contained in the waste management unit), b) concentration limits (the allowable concentrations of each constituent of concern in ground water), c) monitoring points, d) point of compliance (a vertical surface located at the hydraulically downgradient limit of the waste management unit that extends through the uppermost aquifer underlying the unit), and e) compliance period (the number of years that the waste management unit will pose a threat to water quality).

The Discharger has proposed, and the Regional Board has accepted, the following WQPS. This WQPS applies during the active life of the Landfill, during closure, during the post-closure maintenance period, and during the compliance period of the Landfill.

a. Constituents of Concern

The list of Constituents of Concern (COCs) for water-bearing media (i.e., ground water, surface water, and soil pore liquid) consists of the combined listing of all constituents in Appendices I and II to Subtitle D (Attachment 3 to Monitoring and Reporting Program No. 93-102, in addition to Total Dissolved Solids (TDS), Sulfate, Carbonate, pH, and Chloride. For soil pore gas, the list of COCs consists of all volatile organic compounds (VOCs) detectable via gas chromatograph.

b. Concentration Limits

For each Monitoring Point assigned a Detection Monitoring Program, the Concentration Limit for each COC (or Monitoring Parameter) shall be its background value as obtained during that Reporting Period, as follows:

- 1) If 10% or more of the samples taken during a given Reporting period from the background Monitoring Points for a monitored medium exceed their respective Facility-Specific Method Detection Limit (MDL) for a given constituent, then the Concentration Limit for that medium and constituent shall consist of the mean (or median, as appropriate) and standard deviation (or other measure of central tendency, as appropriate) of all the background data obtained for that constituent from that medium during that Reporting Period; otherwise
- 2) the Concentration Limit for that medium and constituent shall be its MDL.

c. Monitoring Points and Background Monitoring Points for Detection Monitoring

The monitoring points and background monitoring points for detection monitoring shall be those listed in Attachment 1 and shown in Attachment 2 of Monitoring and Reporting Program 93-102.

d. Point of Compliance

The Point of Compliance is shown on Attachment 2 of Monitoring and Reporting Program 93-102.

e. Compliance Period

The estimated duration of the Compliance Period is 77 years. Each time the Standard is broken (i.e., a release is discovered), the Unit enters the compliance period on the date the Regional Board directs the Discharger to begin an Evaluation Monitoring Program. If the Discharger's Corrective Action Program (CAP) has not achieved compliance with the Standard by the scheduled end of the Compliance Period, the Compliance Period is automatically extended until the Unit has been in continuous compliance for at least three consecutive years (Section 2550.6(c), Chapter 15).

3. Monitoring Parameters for Detection Monitoring

The monitoring parameters for water samples include: pH, TDS, Chloride, Nitrate Nitrogen, Arsenic, Vanadium, and each VOC that exceeds its respective MDL in at least ten percent of the background samples from a given water body (surface water body, aquifer, perched zone, or soil-pore liquid) during that reporting period.

4. Additional Monitoring Points or Background Monitoring Points

The Discharger shall, in a timely fashion, install any additional ground water, soil pore liquid, soil pore gas, or leachate monitoring devices required to fulfill the terms of any Discharge Monitoring Program issued by the Executive Officer.

5. Required Programs

The monitoring and response program submitted by the Discharger has been reviewed and approved by the Regional Board. Therefore, the Discharger shall institute the following programs as described in the Monitoring and Reporting Program:

- a. Detection Monitoring Program as described under Section 258.54, Subtitle D.
- b. Assessment Monitoring Program as described under Section 258.55, Subtitle D, whenever a statistically significant increase over background has been detected for one or more of the COCs.
- c. Assessment of the Corrective Action Measures as described under Section 258.56, Subtitle D, within 90 days of finding that any of the COCs have been detected at a significant level exceeding the ground water protection standards defined under 258.55(h) or (i).
- d. Selection of Remedy as described under Section 258.57, Subtitle D, based on the results of the corrective measures assessment conducted under Section 258.56.

- e. Implementation of the Corrective Action Program under Section 258.58, Subtitle D, based in the schedule established under Section 258.57(d).

The Discharger shall comply with the General Water Quality Monitoring and System requirements prescribed under Section 2550.7, chapter 15, and with the requirements given under Sections 258.50, 258.51, and 258.53, Subtitle D.

B. General Requirements and Prohibitions

1. The discharge of treated or untreated domestic sewage, industrial waste, garbage or other solid wastes, or any other deleterious material to the surface waters of the Herlong Hydrologic Subunit of the Susanville Hydrologic Unit is prohibited.
2. The discharge, attributable to human activities, of solid or liquid waste materials, including soil, silt, clay, sand, and other organic and earthen materials, to the surface waters of the Herlong Hydrologic Subunit of the Susanville Hydrologic Unit is prohibited.
3. The discharge of waste except to the designated disposal site is prohibited.
4. The disposal site shall be protected from inundation, washout, or erosion of wastes, and erosion of covering materials, resulting from a storm or a flood having a recurrence interval of once in 100 years.
5. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources shall not contact or percolate through Class 3 wastes discharged at the site.
6. The exterior surfaces of the disposal site shall be graded to promote lateral runoff of precipitation and to prevent ponding.
7. Water used for dust control during disposal site operations shall be limited to a minimal amount. A minimal amount is defined as that amount which does not result in the formation of runoff.
8. Wastes other than inert wastes shall not be placed in ponded water from any source whatsoever.

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9. No hazardous or designated wastes shall be deposited at this site.
10. No nonbiodegradable chemical toilet wastes or septage may be accepted at the site.
11. The discharge of wastes in a manner that does not maintain the five foot soil separation between the wastes and the seasonal high ground water elevation is prohibited.
12. Waste discharged to the site shall have a solids content of 50 percent or greater.
13. The discharge of waste to any waste management unit not approved by the Executive Officer is prohibited.
14. The discharge of waste shall not cause a nuisance or pollution, as defined in Section 13050 of the California Water Code, or threatened pollution.
15. The discharge of solid waste, liquid waste, or leachate to the ground water is prohibited.
16. All facilities used for collection, conveyance, or storage of contaminated soil shall be adequately protected against overflow, washout, inundation, structural damage or a significant reduction in efficiency resulting from a storm or flood having a recurrence interval of once in 100 years as required in Section 2532(c), Chapter 15 and in § 258.11 and 258.16, Subtitle D.
17. During the winter months, the disposal activity shall be confined to the smallest area possible based on the anticipated quantity of wastes and operation procedures.

III. PROVISIONS

A. General

1. Board Order Number 6-73-76 is hereby rescinded.

2. The California Regional Water Quality Control Board, Lahontan Region, hereby reserves the privilege of changing all or any portion of this Order upon legal notice and after opportunity to be heard is given to all concerned parties.
3. The Discharger shall comply with "Standard Provisions", as shown in Attachment "D", which is made a part of this Order.
4. The owner(s) of property subject to waste discharge requirements shall be considered to have a continuing responsibility for ensuring compliance with applicable waste discharge requirements in the operation or use of the owned property. Any change in the ownership and/or operation of property subject to waste discharge requirements shall be reported to this Regional Board. Notification of applicable waste discharge requirements shall be furnished the new owner(s) and/or operator(s). A copy of such notification shall be sent to this Regional Board.
5. This Order is issued to the Discharger listed in Finding No. 1. It may be transferred only after compliance with the transfer procedures established by the Regional Board.
6. The Discharger shall prepare and submit a proposal to eliminate (or significantly reduce) the impacts to ground water which have been identified in the borrow pit area. The proposal should include a tentative schedule for implementation. The Discharger shall submit this proposal by not later than July 15, 1994.

B. Monitoring and Reporting

1. Pursuant to the California Water Code Section 13267(b), the discharger shall comply with the Monitoring and Reporting Program No. 93-102 as specified by the Executive Officer.
2. The Discharger shall install any additional ground water, soil pore liquid, soil pore gas, or leachate monitoring devices ordered by the Board (Section 2550.8, Chapter 15).

3. Prior to conducting any water quality sampling pursuant to Monitoring and Reporting Program No. 93-102, the Discharger shall prepare and submit a Quality Assurance/ Quality Control Plan (QA/QC Plan) for sampling and laboratory procedures.
4. The preliminary closure and post-closure maintenance plan shall be updated if there is a substantial change in operations, and a report shall be submitted annually indicating conformance with existing operations. A final plan shall be submitted at least 180 days prior to beginning any partial or final closure activities or at least 120 days prior to discontinuing the use of the site for waste treatment, storage or disposal, whichever is greater. The final plan shall be prepared by or under the supervision of either a California registered civil engineer or a certified engineering geologist.
5. If the Discharger intends to expand the capacity of the facility, a report shall be filed no later than 90 days after the total quantity of waste discharged at this site equals 75 percent of the reported capacity of the site. The report shall contain a detailed plan for site expansion. This plan shall include, but is not limited to a time schedule for studies design, and other steps needed to provide additional capacity. If site expansion is not undertaken prior to the site reaching the reported capacity, the total quantity discharged shall be limited to the reported capacity.
6. The Discharger shall notify the Regional Board by telephone within 24 hours whenever an adverse condition occurs as a result of this discharge; written confirmation shall follow within two weeks. An adverse condition is any condition or occurrence which could cause the discharger to be out of compliance. An adverse condition includes, but is not limited to the following: the acceptance of wastes in violation of this Order, the presence of contaminants in any LCRS or monitoring system.
7. Any proposed material change in the character of the waste, manner or method of treatment or disposal, increase of discharge, or location of discharge, shall be reported to this Regional Board at least 120 days in advance of implementation of any such proposal.

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8. A copy of this Order and the Monitoring and Reporting Program shall be available at all times at the facility site for immediate reference by the facility supervisor.
9. An operation and maintenance log shall be maintained at the facility.

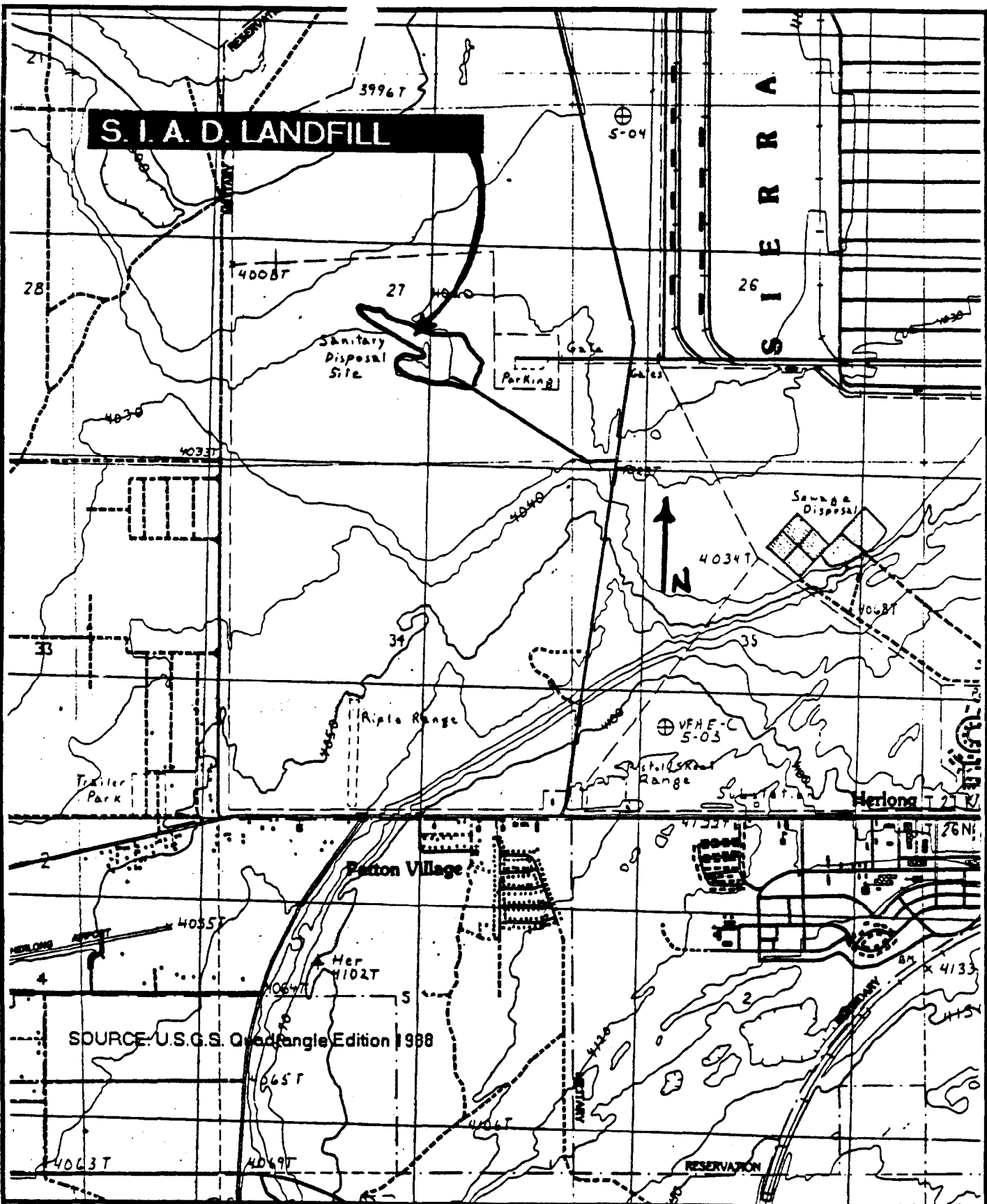
I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Lahontan Region, on November 19, 1993.



HAROLD J. SINGER
EXECUTIVE OFFICER

- Attachments:
- A. Landfill Location Map
 - B. Landfill Site
 - C. Ground Water Contour Map
 - D. Standard Provisions

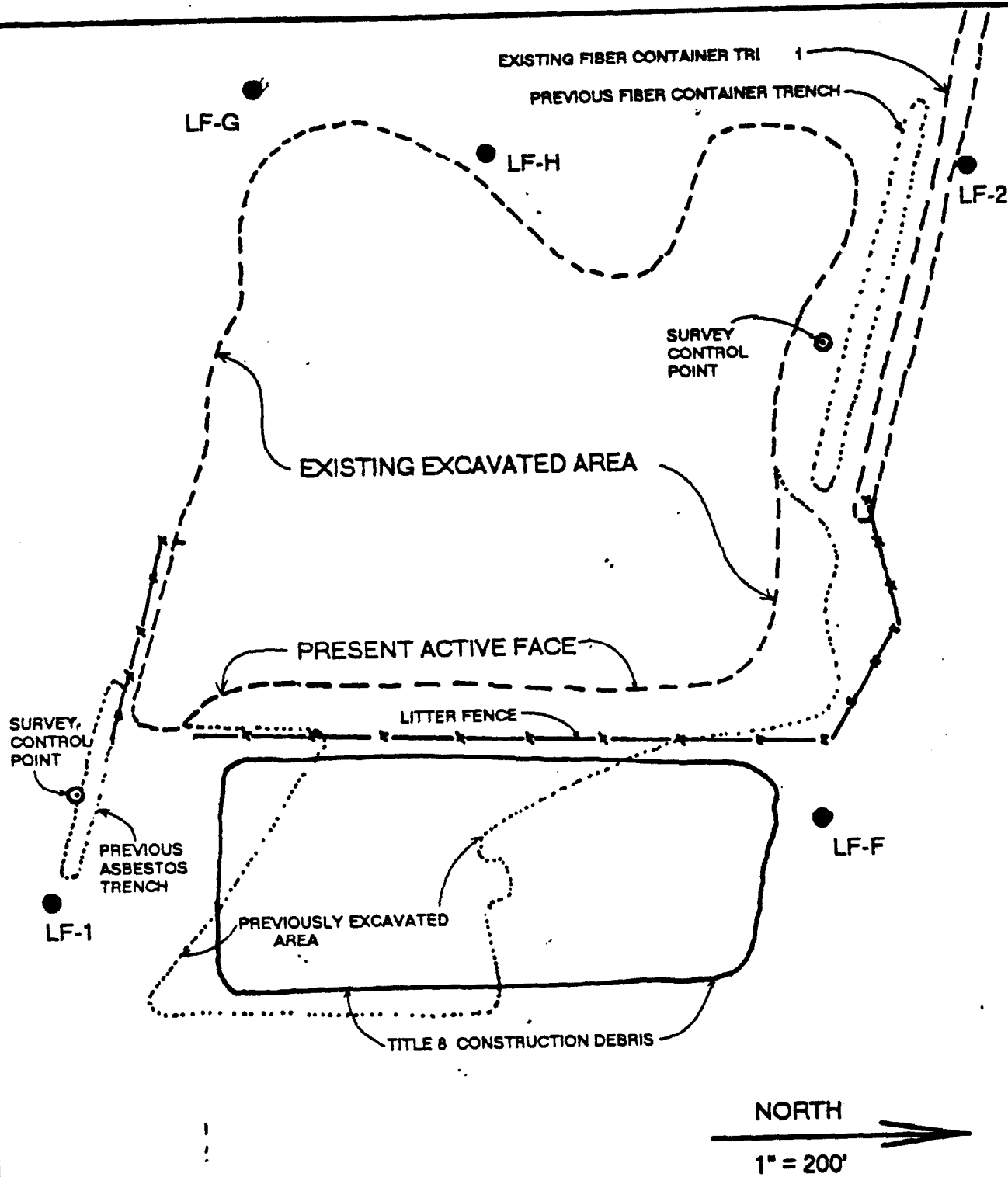
S. I. A. D. LANDFILL



SOURCE: U.S.G.S. Quadangle Edition 1988

MCCAIN ASSOCIATES
P. O. BOX 448 SUSANVILLE CA 96131
CONSULTING ENGINEERS SURVEYORS

LOCATION MAP



SOURCES: (4), (5), Personal survey Dec. 1, 1992

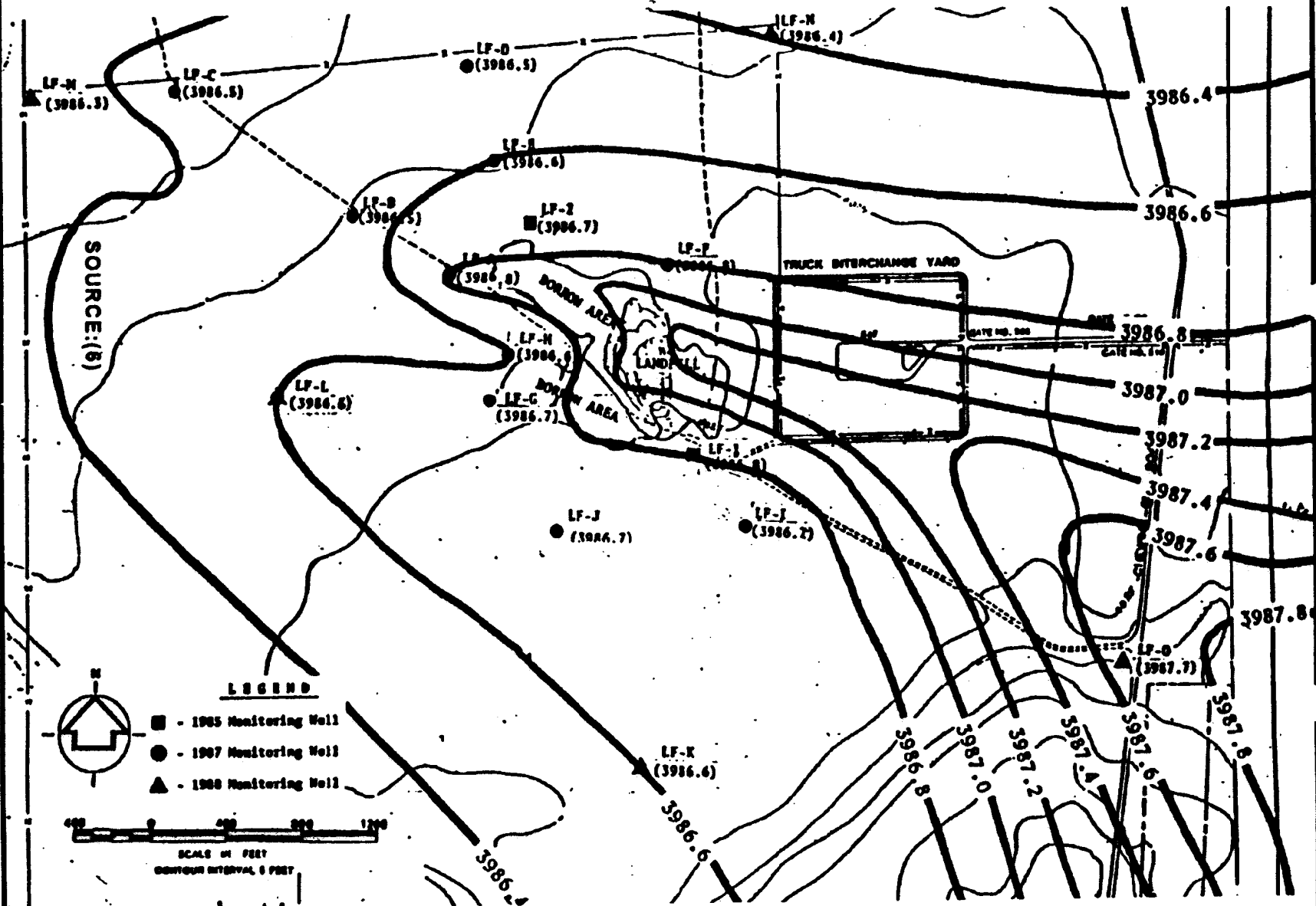


MCCAIN ASSOCIATES
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CONSULTING ENGINEERS SURVEYORS

**S.I.A.D. LANDFILL
EXISTING CONDITIONS**

McCAIN ASSOCIATES
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CONSULTING ENGINEERS
SURVEYORS

GROUNDWATER CONTOURS
S.I.A.D. LANDFILL AS OF 4/26/88



Attachment "D"

STANDARD PROVISIONS

1. Definitions

"Surface waters" and "receiving waters", as used in this Order, include, but are not limited to, live streams, either perennial or ephemeral, which flow in natural or artificial water courses, and natural lakes and artificial impoundments of waters.

2. Inspection and Entry

The Dischargers shall permit the Regional Board staff:

- a. to enter upon premises in which an effluent source is located or in which any required records are kept.
- b. to access and copy any records required to be kept under terms and conditions of this Order;
- c. to inspect monitoring equipment or records; and
- d. to sample any discharge.

3. Reporting Requirements

- a. Pursuant to California Water Code 13267, the Dischargers shall immediately notify the Board by telephone whenever an adverse condition occurs as a result of this discharge; written confirmation shall follow within two weeks. An adverse condition includes, but is not limited to, serious violation or serious threatened violation of waste discharge requirements, significant spills of petroleum products or toxic chemicals, or damage to control facilities that could affect compliance.
- b. Pursuant to California Water Code 13267 any proposed material change in the character of the waste, manner or method of treatment or disposal, increase of discharge, or location of discharge, shall be reported to this Board at least 90 days in advance of implementation of any such proposal. This shall include, but not be limited to, all significant soil disturbances, all proposed expansion projects, increase in impervious surface coverage, any change in drainage characteristics at the facility, use of snowmaking additives or use of snow conditioners.

- c. The owners of property subject to waste discharge requirements shall be considered to have a continuing responsibility for ensuring compliance with applicable waste discharge requirements in the operations or use of the owned property. Any change in the ownership and/or operation of property subject to waste discharge requirements shall be reported to the Board. Notification of applicable waste discharge requirements shall be furnished to the new owners and/or operators. A copy of such notification shall be sent to the Board.
- d. Pursuant to California Water Code Section 13267, the Dischargers shall report all instances of noncompliance with the requirements of this permit in writing to the Board. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. Any noncompliance that may endanger health or the environment shall be reported orally as soon as the Dischargers become aware of the circumstances, and the written report shall be provided within 14 days of that time. The Executive Officer may waive the above-required written report.
- e. When the Dischargers become aware that any information submitted to the Board contained incorrect information, the Discharger shall immediately correct that information.
- f. Reports required by this Order, and other information requested by the Board, must be signed by a duly authorized representative of the Discharger.

4. Right to Revise Order

The Board reserves the privilege of changing all or any portion of this Order upon legal notice to and after opportunity to be heard is given to all concerned parties.

5. Variance to Seasonal Construction Deadlines

A written variance to the ground disturbance dates in the Best Management Practices may be granted by the Executive Officer where in his judgment it can be demonstrated that granting of such a variance would not degrade water quality.

6. Duty to Comply

The Dischargers must comply with all the conditions of this Order. Failure to comply with this Order may constitute a violation of the California Water Code and may be grounds for enforcement action or for Order termination, revocation and reissuance, or modification.

7. Duty to Mitigate

The Dischargers shall take all reasonable steps to minimize or prevent any discharge in violation of this Order which has a reasonable likelihood of adversely affecting human health or the environment.

8. Proper Operation and Maintenance

The Dischargers shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the Dischargers to achieve compliance with this Order. Proper operation and maintenance includes adequate laboratory control, where appropriate, and appropriate quality assurance procedures. This provisions requires the operation of backup or auxiliary facilities or similar systems that are installed by Dischargers only when necessary to achieve compliance with the conditions of this Order.

9. Order Actions

This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Dischargers for an Order modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any of the Order conditions.

10. Property Rights

This Order does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

11. Enforcement

The California Water Code provides for civil liability and criminal penalties for violations or threatened violations of this Order, including imposition of civil liability or referral to the Attorney General.

12. Availability

A copy of this Order shall be maintained at the facility where feasible and be available at all times to operating personnel.

13. Severability

Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

14. Transfers

Providing there is no material change in the operation of the facility, this Order may be transferred to a new owner or operator. The owner/operator must request the transfer in writing and receive written approval from the Board's Executive Officer.